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## PEMROGRAMAN 2

Buatlah aplikasi manajemen antrian menggunakan java dengan netbeans. aplikasi ini harus memiliki GUI menggunakan JavaFX, serta fitur untuk mengelola antrian pasien menggunakan queue.

Fitur yang harus dimiliki :

- A. Queue (Antrian Pasien): Gunakan struktur data queue untuk menambahkan, menghapus, dan melihat daftar pasien dalam antrian.
- B. GUI dengan Javafx: tampilan antrian dalam bentuk table atau daftar pada GUI.
- C. Sorting: Buat Fitur untuk mengurutkan pasien berdasarkan prioritas (misalnya, usia atau kondisi)

Catatan:

1. Gunakan NetBeans sebagai IDE.
2. Implementasikan konsep OOP
3. Struktur Data (Linked list, Stack , Queue) harus digunakan dengan benar.

```
Proj... X Services Files
AntrianPasien1 [00000000...]
Source Packages
src
Main.java [-/A]
Patient.java [-/A]
PatientQueue.java
Test Packages
Libraries
Test Libraries
AplikasiPembayaran12 [00000000...]
ChatClient [00000000...]
ChatServer [00000000...]
ContohFileOutputStream [00000000...]
ContohOutputStream [00000000...]
countdowngui [00000000...]
DataPekerjaan12 [00000000...]
FormDataMahasiswa12 [00000000...]
FormPesananRestoranRaiha
MasterDataPekerjaan [00000000...]
NO1Pemrograman [00000000...]
NO2Pemrograman [00000000...]
Pemrograman2 [00000000...]
Pemrograman2 [00000000...]
PERTEMUAN1 [00000000...]
Pertemuan51 [00000000...]
projekpemrograman12 [00000000...]
SharedData [00000000...]
TwoStrings [00000000...]
uas [00000000...]

Start Page X Main.java [-/A] X Patient.java [-/A] X PatientQueue.java [-/A] X
Source History
1 package src;
2
3 import javafx.application.Application;
4 import javafx.collections.FXCollections;
5 import javafx.collections.ObservableList;
6 import javafx.geometry.Insets;
7 import javafx.scene.Scene;
8 import javafx.scene.control.*;
9 import javafx.scene.layout.GridPane;
10 import javafx.stage.Stage;
11
12 public class Main extends Application {
13     private PatientQueue patientQueue = new PatientQueue();
14     private ListView<Patient> patientListView = new ListView<>();
15     private TextField nameField, ageField, conditionField;
16
17     public static void main(String[] args) {
18         launch(args);
19     }
20
21     @Override
22     public void start(Stage stage) {
23         stage.setTitle("Manajemen Antrian Pasien");
24
25         GridPane grid = new GridPane();
26         grid.setPadding(new Insets(10));
27         grid.setVgap(10);
28         grid.setHgap(10);
29
30         Label nameLabel = new Label("Nama:");
31         grid.add(nameLabel, 0, 0);
32         nameField = new TextField();
33         grid.add(nameField, 1, 0);
34
35         Label aceLabel = new Label("Usia:");
```

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uas [00000000...]

Start Page X Main.java [-/A] X Patient.java [-/A] X PatientQueue.java [-/A] X
Source History
1 package src;
2
3 public class Patient {
4     private String name;
5     private int age;
6     private String condition;
7
8     public Patient(String name, int age, String condition) {
9         this.name = name;
10        this.age = age;
11        this.condition = condition;
12    }
13
14    public String getName() {
15        return name;
16    }
17
18    public int getAge() {
19        return age;
20    }
21
22    public String getCondition() {
23        return condition;
24    }
25
26    @Override
27    public String toString() {
28        return name + " (Usia: " + age + ", Kondisi: " + condition + ")";
29    }
30
31 }
```

```
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SharedData [00000000...]
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uas [00000000...]

Start Page X Main.java [-/A] X Patient.java [-/A] X PatientQueue.java [-/A] X
Source History
1 package src;
2
3 import java.util.LinkedList;
4 import java.util.List;
5 import java.util.Queue;
6
7 public class PatientQueue {
8     private Queue<Patient> queue;
9
10    public PatientQueue() {
11        queue = new LinkedList<>();
12    }
13
14    public void addPatient(Patient patient) {
15        queue.offer(patient);
16    }
17
18    public Patient viewNextPatient() {
19        return queue.poll();
20    }
21
22    public List<Patient> getAllPatients() {
23        return List.copyOf(queue);
24    }
25
26 }
```

Manajemen Antrian Pasien

Nama:

Usia:

Kondisi:

Lutfi (Usia: 23, Kondisi: Sehat)
Lia (Usia: 22, Kondisi: Flu)
Salsa (Usia: 23, Kondisi: Batuk)

Message

Message

Pasien Selanjutnya: Lutfi